



JC10 Rec'd PCT/PTO 09 MAY 2005

PATENT

PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: LEONHARTSBERGER ET AL.-3 PCT
SERIAL NO.: 10/530,844
FILED: APRIL 8, 2005
TITLE: FEEDBACK-RESISTANT HOMOSERINE TRANSSUCCINYLASES HAVING
A MODIFIED C TERMINUS

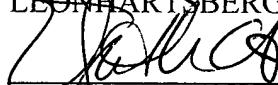
SUBMISSION OF INFORMATION DISCLOSURE
STATEMENT OF DR. HOLGER POTEN

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants wish to bring to the attention of the Patent Examiner the attached Information Disclosure Statement, duly signed by Dr. Holger Potten, and the references listed on the enclosed Form PTO-1449 and attached thereto. It is respectfully requested that the foregoing Information Disclosure Statement be incorporated into the official file of the present patent application.

Respectfully submitted,
LEONHARTSBERGER ET AL.-3 PCT


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Encs: Information Disclosure Statement of Dr. Holger Potten, International Search Report, PTO-1449 form and seventeen (17) references

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on May 6, 2005.


Melissa Konko



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
LEONHARTSBERGER ET AL. :
Serial Number 10/1530,844 : Group Art Unit:
Filed: April 8, 2005 :
For: :
FEEDBACK-RESISTANT HOMOSERINE TRANSSUCCINYLASES HAVING A
MODIFIED C TERMINUS

Information Disclosure Statement

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir or Madam:

I, Holger Potten, associated with the preparation and prosecution of the above-identified application, residing at Neubiberger Straße 17a, 81737 München, Germany, wish to call the attention of the Patent Examiner to the references enumerated on the enclosed PTO Form-1449.

I believe the documents enumerated on the enclosed Form PTO-1449 and attached thereto, are cited in the enclosed International Search Report and may be material to the examination of the application.

Therefore, it is respectfully requested that the foregoing Information Disclosure Statement be considered by the Examiner and incorporated into the file of this application.

I wish to comment as follows concerning the prior art references enumerated on PTO Form-1449:

US 5,120,837, cited in the application, is already in English language.

US 5,698,418, cited in the International Search Report, is already in English language.

US 2002/0106800 A1, cited in the International Search Report, is already in English language.

EP 0 745 671 A2, cited in the application, is already in English language.

JP 2000-139471-A, cited in the application, the English Thomson Derwent translation is enclosed.

WO 93/09225, cited in the German office action, is already in English language.

DE 102 47 437 A1, cited in the application, the corresponding Derwent abstract in English language is enclosed.

MORINAGA ET AL.: "Regulatory Properties of L-Methionine Biosynthesis in Obligate Methylotroph OM 33: Role of Homoserine-*O*-transsuccinylase", Agric. Biol. Chem., Vol. 46, No. 1, 1982, Pages 57 – 64, cited in the International Search Report, is already in English language.

BOURHY ET AL.: "Homoserine *O*-Acetyltransferase, Involved in the *Leptospira meyeri* Methionine Biosynthetic Pathway, Is Not Feedback Inhibited", Journal of Bacteriology, July 1997, Vol. 179, No. 13, Pages 4396 – 4398, cited in the International Search Report, is already in English language.

DUCLOS ET AL.: "Nucleotide sequence of the *metA* gene encoding homoserine *trans*-succinylase in *Escherichia coli*", Nucleic Acids Research, 1989, Vol. 17, No. 7, Page 2856, cited in the International Search Report, is already in English language.

LAWRENCE ET AL.: "Regulation of the Methionine Feedback-Sensitive Enzyme in Mutants of *Salmonella typhimurium*", Journal of Bacteriology, January 1972, Vol. 109, No. 1, Pages 8 - 11, cited in the German office action, is already in English language.

KREDICH ET AL., TOMKINS ET AL.: "The Enzymic Synthesis of L-Cysteine in *Escherichia coli* and *Salmonella typhimurium*", The Journal of Biological Chemistry, 1966, Vol. 241, No. 21, Pages 4955 – 4965, cited in the application, is already in English language.

LEE ET AL.: "Multimetabolite Control of a Biosynthetic Pathway by Sequential Metabolites", The Journal Of Biological Chemistry, 1966, Vol. 241, No. 22, Pages 5479 – 5480, cited in the application, is already in English language.

SHIOZAKI ET AL.: "S-Adenosyl-L-methionine Production by *Saccharomyces sake*: Optimization of the Culture Conditions for the Production of Cells with a High S-Adenosyl-L-methionine Content", Agric. Biol. Chem., 1989, Vol. 53, No. 12, Pages 3269 – 3274, cited in the application, is already in English language.

SCHLENK ET AL., DePALMA ET AL.: „The Preparation of S-Adenosylmethionine“, J. Biol. Chem., 1957, Pages 1037 – 1050, cited in the application, is already in English language.

GREENE ET AL.: "Biosynthesis of Methionine" in Neidhardt F.C., *Escherichia coli* and *Salmonella typhimurium*, Cellular and molecular biology, 2nd Edition, ASM Press, Washington DC 1996, Pages 542 – 560, cited in the application, is already in English language.

Signed this 11th day of April, 2005.


.....
Dr. Holger Potten

O I P E MAY 09 2005 LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: LEONHARTSBERGER- GERETAL (PT)	SERIAL NO. 10/530,844
		APPLICANT: LEONHARTSBERGER ET AL.		
		FILING DATE: APRIL 8, 2005	GROUP:	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2002/0106800	08/08/02	Liu et al.			
	AB	6,698,418	12/16/97	Brunner et al.			
	AC	5,120,837	06/09/92	Fotheringham et al.			
	AD						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	93/09225	05/13/93	International				
	AM	0745671	12/04/96	Europe				
	AN	2000-139471	05/23/00	Japan				
	AO	10247437	04/29/04	Germany				
	AP							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Morinaga et al., Agric. Biol. Chem., Vol. 46, No. 1, Pages 57-63, 1982.
		Duclos et al., "Nucleotide sequence of the metA gene encoding homoserine hans-succinylase in Escherichia coli," Nucleic Acids Res., Vol. 17, No. 7, Page 2256.
	AS	
	AT	Banerjee et al., Journal of Bacteriology, July 1997, Vol. 179, No. 13, Pages 4396-4398.

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)

MAY 09 2005

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

LEONHARTSBERGER-
ET AL. (C)

SERIAL NO.

10/530,844

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	AN							
	AO							
	AP							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	shlentz et al., DePuma et al., "The Formation of S-Acetylglutathione in Yeast", J. Biol. Chem., 1957, Pages 1037-1050.	
AS	shiozaki et al., Agric. Biol. Chem., 1989, Vol. 53, No. 12, Pages 3269-3274.	
AT	lee et al., "Multimetabolic control of a Biosynthetic Pathway by Sequential Metabolites", J. Biol. Chem., 1966, Vol. 241, No. 22, Pages 5479-5480.	

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AR	Krelich et al., "The Enzymic Synthesis of L-Cysteine in Escherichia coli and Salmonella typhimurium", J. Biol. Chem., Vol. 241, No. 21, 1966, Pages 4955-4965.	
AS	Lawrence et al., Journal of Bacteriology, January 1972, Vol. 109, No. 1, Pages 8-11.	
AT	Greene et al., "Biosynthesis of Methionine", Neidhardt F.C., 2nd Ed., 1996, American Society for Microbiology, Washington DC, 1996, Pages 542-560.	

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	AN							
	AO							
	AP							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	<u>thomson Derwent abstract corresponding to JP2000-13947A1</u>					
	AS	<u>Derwent abstract corresponding to DE 102 47 437 A1.</u>					
	AT						

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